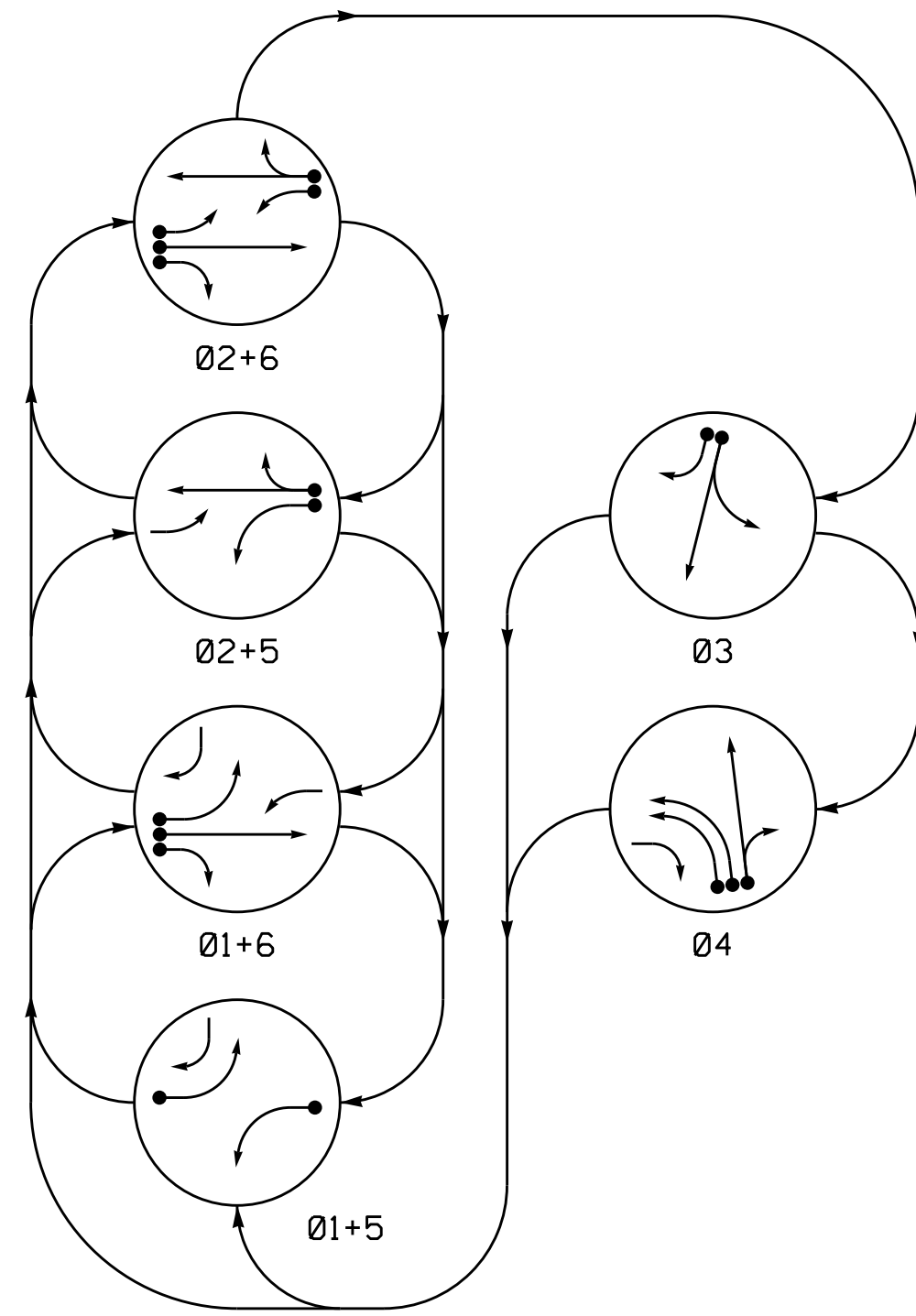


PHASING DIAGRAM



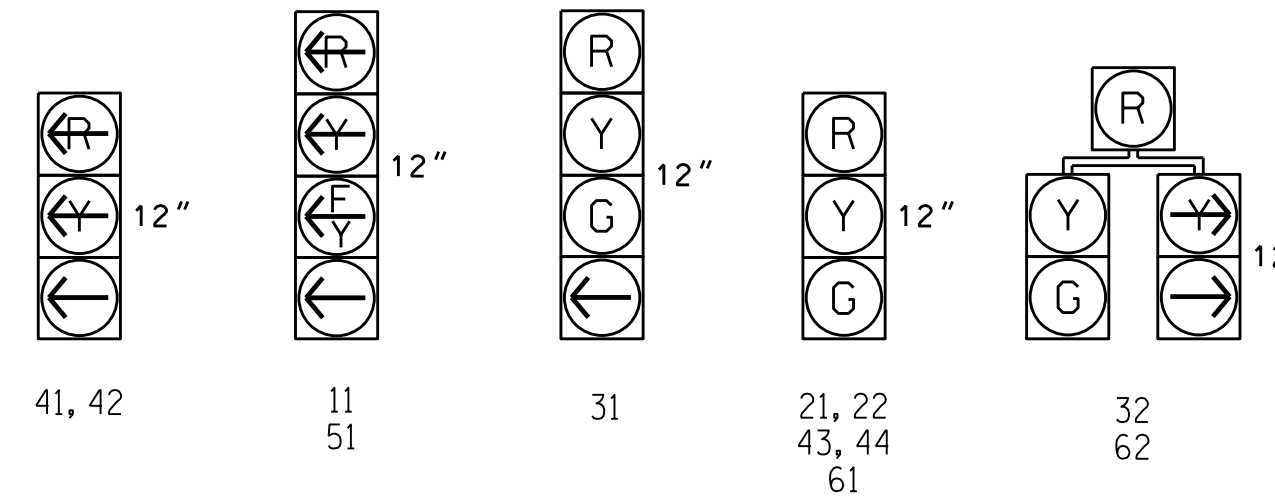
PHASING DIAGRAM DETECTION LEGEND

- ◄●► DETECTED MOVEMENT
- ◄◄◄ UNDETECTED MOVEMENT (OVERLAP)
- ◄---► UNSIGNALIZED MOVEMENT
- ◄---► PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE						
	01+5	01+6	02+5	02+6	03	04	PEDESTRIAN
11	←	←	←	←	←	←	←
21, 22	R	R	G	G	R	R	Y
31	R	R	R	R	G	R	R
32	R	R	R	R	G	R	R
41, 42	←	←	←	←	←	←	←
43, 44	R	R	R	R	R	G	R
51	←	←	←	←	←	←	←
61	R	G	R	G	R	R	Y
62	R	G	R	G	R	R	Y

SIGNAL FACE I.D.

All Heads L.E.D.

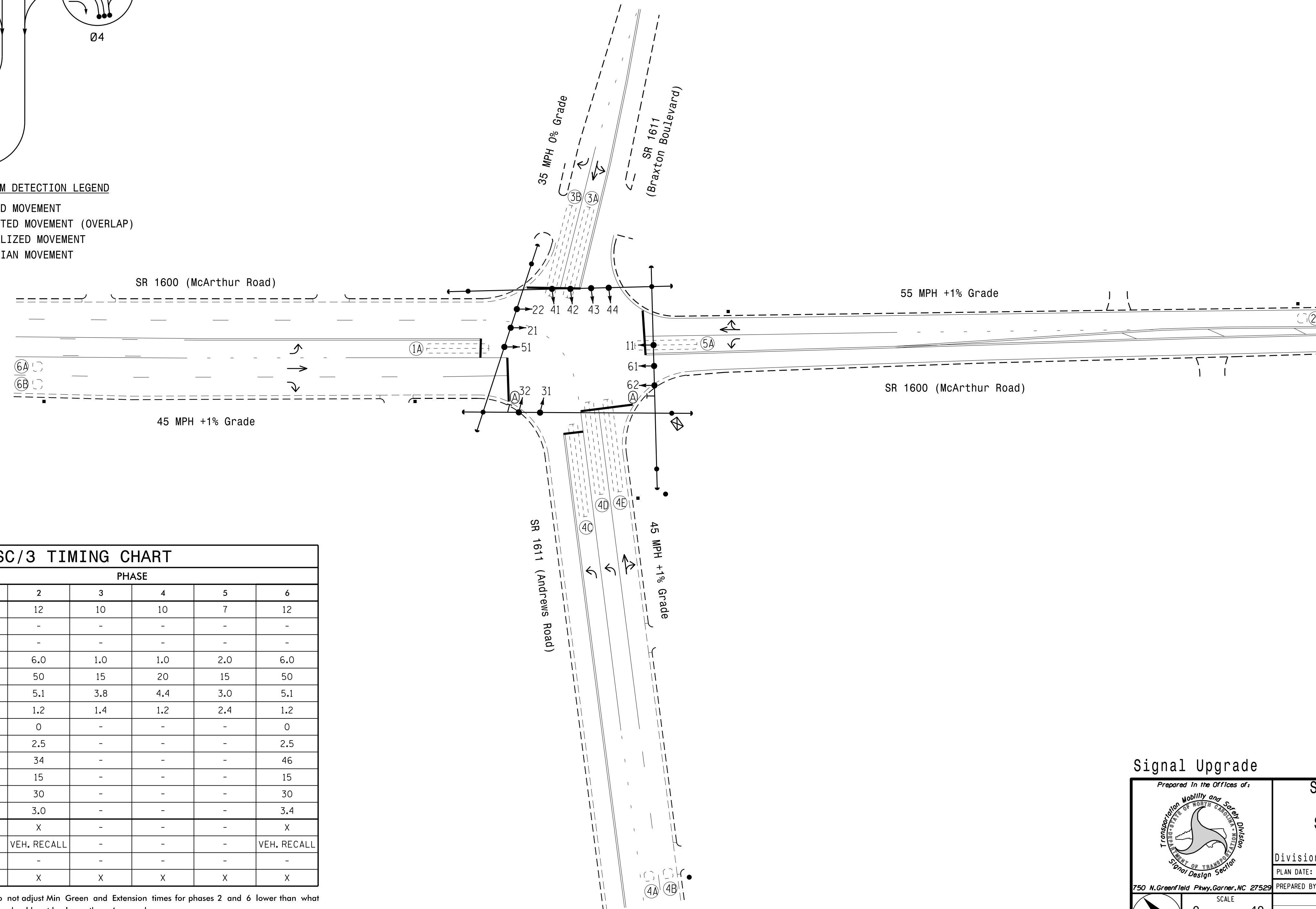


ASC/3 DETECTOR INSTALLATION CHART											
DETECTOR					PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	+5	2-4-2	-	1	Yes	-	15	S	-	X
2A	6X6	420	4	-	2	Yes	-	3	G	-	X
3A	6X60	+5	2-4-2	-	3	Yes	-	3	S	-	X
3B	6X60	+5	2-4-2	-	3	Yes	-	15	S	-	X
4A, 4B	6X6	300	4	-	4	No	5.0	-	N	-	X
4C, 4D	6X60	+5	2-4-2	-	4	Yes	-	-	S	-	X
4E	6X60	+5	2-4-2	-	4	Yes	-	10	S	-	X
5A	6X40	+5	2-4-2	-	5	Yes	-	15	S	-	X
6A, 6B	6X6	300	4	-	6	Yes	-	-	N	-	X

6 Phase Fully Actuated Fayetteville Signal System

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- Set all detector units to presence mode.
- In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Pavement markings are existing.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



ASC/3 TIMING CHART						
FEATURE	PHASE					
	1	2	3	4	5	6
Min Green *	7	12	10	10	7	12
Walk *	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-
Veh. Extension *	2.0	6.0	1.0	1.0	2.0	6.0
Max I *	15	50	15	20	15	50
Yellow	3.0	5.1	3.8	4.4	3.0	5.1
Red Clear	2.4	1.2	1.4	1.2	2.4	1.2
Actuations B4 Add *	-	0	-	-	-	0
Seconds /Actuation *	-	2.5	-	-	-	2.5
Max Initial *	-	34	-	-	-	46
Time Before Reduction *	-	15	-	-	-	15
Time To Reduce *	-	30	-	-	-	30
Minimum Gap	-	3.0	-	-	-	3.4
Locking Detector	-	X	-	-	-	X
Recall Position	-	VEH. RECALL	-	-	-	VEH. RECALL
Dual Entry	-	-	-	-	-	-
Simultaneous Gap	X	X	X	X	X	X

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

LEGEND

- | | | | |
|--|--|--|------------------------------|
| | PROPOSED Traffic Signal Head | | EXISTING Traffic Signal Head |
| | PROPOSED Modified Signal Head | | EXISTING N/A |
| | PROPOSED Pedestrian Signal Head | | EXISTING N/A |
| | PROPOSED Signal Pole with Guy | | EXISTING |
| | PROPOSED Signal Pole with Sidewalk Guy | | EXISTING |
| | PROPOSED Inductive Loop Detector | | EXISTING |
| | PROPOSED Controller & Cabinet | | EXISTING |
| | PROPOSED Junction Box | | EXISTING |
| | PROPOSED 2-in Underground Conduit | | EXISTING |
| | PROPOSED Right of Way | | EXISTING |
| | PROPOSED Directional Arrow | | EXISTING |
| | PROPOSED Right Arrow "ONLY" Sign (R3-SR) | | EXISTING |

Signal Upgrade

<p>750 N. Greenfield Pkwy, Garner, NC 27529</p>	<p>SR 1600 (McArthur Road) at SR 1611 (Andrews Road/ Braxton Boulevard)</p>		
	<p>Division 6 Cumberland County Fayetteville</p>		
<p>PLAN DATE: April 2016</p>	<p>REVIEWED BY: JPG</p>	<p>PREPARED BY: Devin Smith</p>	<p>REVIEWED BY:</p>
<p>REVISIONS</p>	<p>INIT.</p>	<p>DATE</p>	<p>DATE</p>
<p>SCALE 0 40 1"=40'</p>			<p>Sig. Inventory No. 06-0788</p>

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

07-11-2016 08:58
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